

**FUEL CELL WITH COOLING SYSTEM BASED ON DIRECT INJECTION
OF LIQUID WATER**

ABSTRACT

The invention relates to a stack of polymeric membrane fuel cells, wherein the removal of the heat generated by the production of electric energy and the humidification of the ion exchange membranes used as electrolytes are obtained by the direct injection of a water flow coming from a single hydraulic circuit. The stack thus produced is more compact, less expensive and easier to operate.

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